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FAX MEMO

Memo to: Harold Joyce **Date: May 19, 2005**

2. pages

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Re: Office Action Reply

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USPTO:

Examiner Harold Joyce:

Sir after reviewing Miller I feel all my broad claims are patent able. Miller's invention seems to be more like a stack or tube that the air passes through, (because my invention is not an exhaust fan), I will deal with the air re-circulation side of Miller. Miller does not teach about generating a concentrated column of air with his system, and the exhaust side of his air re-circulation fan has a straight end that fits into the exhaust stack.

My system, is designed to generate a concentrated column of air by drawing the air from the upper circular-cylindrical into a smaller diameter flow passage to increase the feet per-minute (FM) air flow, the relationship between the fan blades and the flow passage is critical to the feet per-minute of air flow produced by the unit. If the flow passage is greater than or less than 1 inch from the fan blades the FM air flow is affected in a negative way, Miller does not mention this relationship of fan blade to flow passage on his system.

The relationship between the end of the flow passage and the fan blade is also critical on my system, if the fan blade is ¼" inside the flow passage instead of ¼" outside the flow passage the FM air flow is reduced by 20%. Miller does not mention any relationship between the fan blade position and the stack on his system, so I do not feel this was an obvious design choice, based on the difference in the air flow generated at the different blade positions.

The relationship between the end of the fan blade and the lower discharge chamber is also critical to maximizing the feet per-minute of air flow produced, if the distance between the egg crate in the discharge chamber and the fan blade is increased there will be a decrease in the FM air flow, the size of the unit is critical to the overall efficiency of the system, I feel that the size is not an obvious change in art. The relationship between the overall size, the flow passage to the fan blade, the fan blade to the discharge chamber, makes my system unique to Miller's system.